

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B10132021-2	
Date: 10/6/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	2-164 - GEORGE'S BROOK BRIDGE #1		
Route:	230A	Overall Length:	8 m
Year Built:	1962	Est: Yes	Overall Width: 8 m
Year Last Rehab.:		Est: No	Roadway Width: 7.4 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	06 - None	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	4.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- West wingwalls have medium alligator cracking with efflorescence. - Southeast wingwall's top half is totally disintegrated and roadway gravels are washing into the brook below, P1. - Northeast wingwall top quarter also total disintegrated. Remainder portion is heavily cracked with efflorescence, P1. Wingwall has an overlay joint with the north abutment (likely from construction) that is heavily eroded and spalling. - South abutment in fair condition, with the exception of the southeast corner which has mild cracking with medium efflorescence. - North abutment in fair condition, mild concrete erosion on the upstream extension footing construction joint on the northwest side. - Construction joint between the upstream extension and old structure opened up and deteriorating with spalls and efflorescent leakage on both abutment faces, P3.		
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable
	- Both fascias have med-wide horizontal cracks throughout with light efflorescence. East fascia/curb inside the		

Comments: structure has medium-severe efflorescent leakage between it and deck, P3. - Construction joint between the upstream extension and old structure on the bottom of deck is heavily disintegrated forming a large spall exposing severely corroded reinforcement, P1. - Old exterior curb beam, now under the structure, totally disintegrated, holes through section with near all reinforcement exposed with extreme corrosion, P3. - Bottom of deck, unless noted above, in fair condition.

DECK

Condition:	F1 - Fair	Curbs:	I - Inapplicable
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair
Approach Rail:	P3 - Poor		
Comments:	- Asphalt in fair condition. - Guiderail post bolts no longer in concrete. Guiderail is now free to flex over structure span, P1. - No end blocks, curbs or hazard markers. - Approach/exit rail has minor dents and scrapes with some post tipping away from the roadway, P3.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Southeast corner has heavy erosion from roadway to brook. Wingwall disintegrated.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2024	Replacement Year:	2040
Antic. Rehab. Cost:	\$75,000	Replacement Cost:	\$500,000
Recommendations:	- Replace guiderail, east wingwalls, and repair/re-seal upstream extension construction joint. Consider replacing structure with a culvert.		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- P1 = upstream construction joint bottom of deck, east wingwalls, and guiderail. P3 = upstream construction joint abutment faces and approach rail. F1 = remainder. - Properties on south side of structure. - Hazards, traffic. - Rubber boots for inspection.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:
Inspection Photos:
 Please provide photos using guidelines below:
 • Any item which inspector sees should be documented by photograph
 • All items noted above as being P3, P1, P, or C
 • Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS